
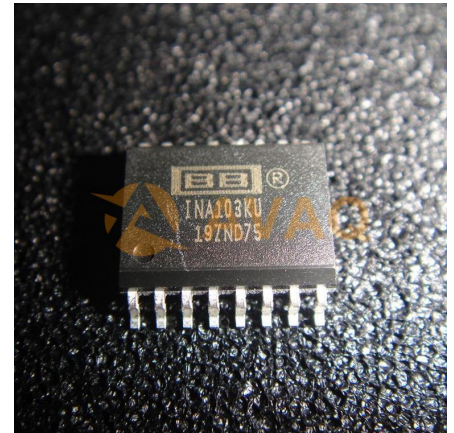


INST Amp Single $\pm 25V$ 16-Pin SOIC Tube

| | |
|----------------------|--|
| Manufacturer: | Texas Instruments, Inc |
| Package/Case: | SOP16 |
| Product Type: | Amplifier ICs |
| RoHS: | RoHS Compliant/Lead free  |
| Lifecycle: | Active |



Images are for reference only

[Inquiry](#)

General Description

The TPS65140-Q1 and TPS65145-Q1 devices offer a compact and small power supply solution that provides all three voltages required by thin-film transistor (TFT) LCD displays. The auxiliary linear regulator controller can be used to generate a 3.3-V logic power rail for systems powered by a 5-V supply rail only. The main output, V_{O1} is a 1.6-MHz fixed-frequency PWM boost converter providing the source-drive voltage for the LCD display. The TPS65140-Q1 device has a typical switch current limit of 2.3 A and the TPS65145-Q1 has a typical switch current limit of 1.37 A.

A fully integrated adjustable charge pump doubler and provides the positive LCD gate-drive voltage. An externally adjustable negative charge pump provides the negative LCD gate-drive voltage.

For compensation of the devices please refer to Application Note: *How to Compensate with the TPS6510x and TPS6514x* SLVA813.

Key Features

LOW NOISE: $1nV/\sqrt{\text{Hz}}$

LOW THD+N: 0.0009% at 1kHz, $G = 100$

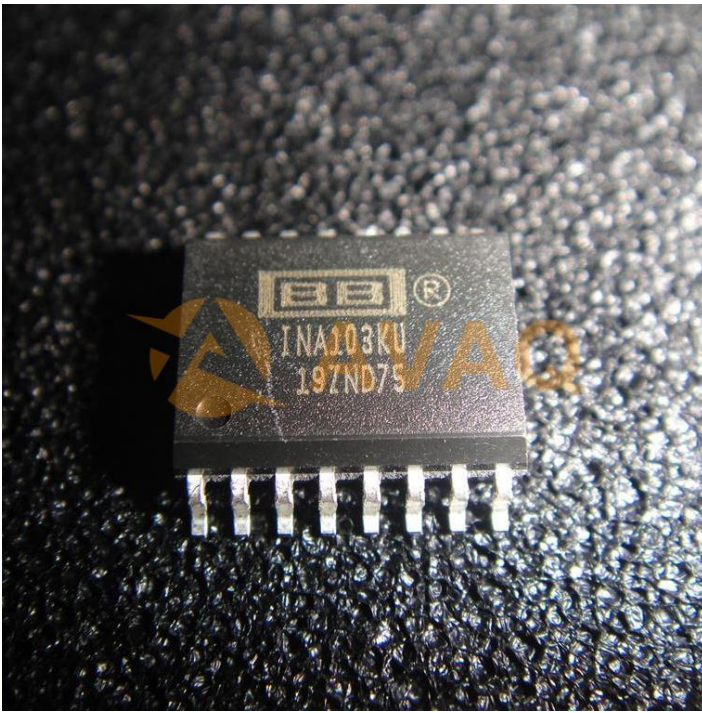
HIGH GBW: 100MHz at $G = 1000$

WIDE SUPPLY RANGE: $\pm 9V$ to $\pm 25V$

HIGH CMRR: $>110\text{dB}$

BUILT-IN GAIN SETTING RESISTORS: $G = 1, 100$

UPGRADES AD625



Recommended For You

INA823DT

Texas Instruments, Inc

SOP8

INA333AIDRGR

Texas Instruments, Inc

SON-8

INA101AM

Texas Instruments, Inc

CAN10

INA141UA

Texas Instruments, Inc

SOP8

INA111AP

Texas Instruments, Inc

DIP8

INA101AG

Texas Instruments, Inc

DIP

INA116UA

Texas Instruments, Inc

SOP16

INA333AIDRGT

Texas Instruments, Inc

SON8

INA101SM

Texas Instruments, Inc

CAN10

INA129PA

Texas Instruments, Inc

DIP8

INA101CM

Texas Instruments, Inc

CAN10

INA141PA

Texas Instruments, Inc

DIP

TLV2254IN

Texas Instruments, Inc

DIP-14

TLV2464IN

Texas Instruments, Inc

DIP14

INA2126UA

Texas Instruments, Inc

SOP16